Amendments to the Claims:

This listing of claims will replace all prior versions and listings of claims in the application.

Listing of Claims:

1. (Original) A composite structural material comprising a fiber dispersed in a fused matrix, the composite comprising:

nylon fiber having a length of about 0.9 cm to 8 cm and a diameter of about 0.2 mm to 7 cm, dispersed in a fused matrix, the fused matrix comprising a thermoplastic comprising a nylon and a polyolefin;

wherein said composite structural material has a flexural elastic modulus (ASTM D790) of at least about $2 \cdot 10^5$ psi.

- 2. (Original) The composite material of claim 1, wherein said matrix comprises about 20 to 30 wt.-% Nylon and about 1 to 40 wt.-% of a polypropylene.
- 3. (Original) The composite material of claim 1, wherein said matrix comprises about 0.1 to 30 wt.-% Nylon 6 and about 1 to 40 wt.-% of a polypropylenc.
- 4. (Original) The composite material of claim 1, wherein said matrix comprises about 0.1 to 30 % Nylon 6,6 and about 1 to 40 wt.-% of a polypropylene.
- 5. (Original) The composite material of claim 1, wherein said matrix comprises a blend of a virgin thermoplastic and thermoplastic derived from a carpet and the fiber has a diameter of about 0.2 mm to 1 cm.
- 6. (Original) The composite material of claim 1, wherein said matrix comprises a blend of a virgin thermoplastic and a blend of two or more carpet sources.
- 7. (Original) The composite material of claim 1, wherein said composite comprises about 25 to 35 wt.-% Nylon and about 1 to 40 wt.-% of a polypropylene.

- 8. (Original) The composite material of claim 1, wherein said composite comprises about 0.1 to 35 wt.-% Nylon 6 and about 1 to 40 wt.-% of a polypropylene.
- 9. (Original) The composite material of claim 1, wherein said composite comprises about 0.1 to 35 % Nylon 6,6 and about 1 to 40 wt.-% of a polypropylene.
- 10. (Original) The composite material of claim 1, wherein said carpet comprises about 1 to 35 wt.-% Nylon 6, about 0.1 to 35 wt.-% Nylon 6,6 and about 25 to 35 wt.-% polyolefin.
- 11. (Original) The composite material of claim 1, wherein said carpet comprises about 20 to 40 wt.-% Nylon 6, about 20 to 40 wt.-% Nylon 6,6 and about 20 to 40 wt.-% polyolefin.
- 12. (Original) The composite material of claim 1, wherein said composite material has a flexural elastic modulus (ASTM D790) of at least about 2 · 10⁵ psi.
- 13. (Original) The composite material of claim 1, wherein said composite material has a tensile strength (ASTM D638) of at least about 2.10³ psi.
- 14. (Original) The composite material of claim 1, wherein said composite material has a tensile strength (ASTM D638) of at least about 2.5 · 10³ psi.
- 15. (Original) The composite material of claim 1, wherein said composite material has a compressive strength (ASTM D695) of at least about 6·10³ psi.
- 16. (Original) The composite material of claim 1, wherein said composite material has a compressive strength (ASTM D695) of at least about 6.5 · 10³ psi.
- 17. (Original) The composite material of claim 1, wherein said composite material has a water absorption of less than about 3% by weight gain of water over a 24 hour period.

- 18. (Original) The composite material of claim 1, further comprising at least one dye.
- 19. (Original) A sheet formed from the composite material of claim 1 having a thickness of about 0.1 centimeter to about 2 centimeters.
- 20. (Original) A sheet formed from the composite material of claim 1 having a width of about 2 centimeters to about 200 centimeters.
- 21. (Original) A composite structural material comprising a fiber dispersed in a fused matrix, the composite comprising:

fiber having a diameter of about 0.2 mm to 7 cm, derived from carpet, carpet recycle, carpet scrap or mixtures thereof, dispersed in a fused matrix, the fused matrix comprising a thermoplastic comprising nylon, polyolefin or mixtures thereof;

wherein said composite structural material has a flexural elastic modulus (ASTM D790) of at least about 2·10⁵ psi.

- 22. (Original) The composite material of claim 21, wherein said matrix comprises about 20 to 30 wt.-% Nylon.
- 23. (Original) The composite material of claim 21, wherein said matrix comprises about 0.1 to 30 wt.-% Nylon 6.
- 24. (Original) The composite material of claim 21, wherein said matrix comprises about 0.1 to 30 % Nylon 6,6.
- 25. (Currently amended) The composite material of claim 21, wherein said matrix comprises thermoplastic derived from carpet and the fiber has a diameter of about about 0.2 mm to 1 cm.
- 26. (Original) The composite material of claim 21, wherein said matrix comprises a blend of a thermoplastic and thermoplastic derived from a carpet.

- 27. (Original) The composite material of claim 21, wherein said matrix comprises a blend of a thermoplastic and a blend of two or more carpet sources.
 - 28. (Original) The composite material of claim 21, wherein said composite comprises about 25 to 35 wt.-% Nylon.
 - 29. (Original) The composite material of claim 21, wherein said composite comprises about 0.1 to 35 wt.-% Nylon 6.
 - 30. (Original) The composite material of claim 21, wherein said composite comprises about 0.1 to 35 % Nylon 6,6.
 - 31. (Original) The composite material of claim 21, wherein said composite comprises about 25 to 35 wt.-% of a polymer selected from Nylon 6, Nylon 6,6 or mixtures thereof and about 35 wt.-% polyolefin by weight.
 - 32. (Original) The composite material of claim 21, wherein said carpet comprises about 0 to 35 wt.-% Nylon 6, about 0.1 to 35 wt.-% Nylon 6,6 and about 25 to 35 wt.-% polyolefin by weight.
 - 33. (Original) The composite material of claim 21, wherein said carpet comprises about 20 to 40 wt.-% Nylon 6, about 20 to 40 wt.-% Nylon 6,6 and about 20 to 40 wt.-% polypropylene by weight.
 - 34. (Original) The composite material of claim 21, wherein said composite material has a flexural elastic modulus (ASTM D790) of at least about 2 · 10⁵ psi.
 - 35. (Original) The composite material of claim 21, wherein said composite material has a tensile strength (ASTM D638) of at least about 2·10³ psi.

- 36. (Original) The composite material of claim 21, wherein said composite material has a tensile strength (ASTM D638) of at least about 2.5 · 10³ psi.
- 37. (Original) The composite material of claim 21, wherein said composite material has a compressive strength (ASTM D695) of at least about 6 · 10³ psi.
- 38. (Original) The composite material of claim 21, wherein said composite material has a compressive strength (ASTM D695) of at least about 6.5 · 10³ psi.
- 39. (Original) The composite material of claim 21, wherein said composite material has a water absorption of less than about 3% by weight gain of water over a 24 hour period.
 - 40. (Original) The composite material of claim 21, further comprising at least one dye.
- 41. (Original) A sheet formed from the composite material of claim 21 having a thickness of about 0.1 centimeter to about 2 centimeters.
- 42. (Original) A sheet formed from the composite material of claim 21 having a width of about 2 centimeters to about 200 centimeters.
- 43. (Original) A composite structural material of claim 21 comprising a fiber dispersed in a fused matrix, wherein the material is formed by introducing a carpet feed stock into an extruder, and extruding the carpet feed stock to form a structural composite member.
- 44. (Original) The composite material of claim 43, wherein the fiber is formed from a higher melting point component of the carpet feed stock, and the fused matrix is formed from a lower melting point component of the feed stock.
- 45. (Withdrawn) A method of manufacturing a rigid board composite structural material comprising the steps of:

- (a) comminuting carpet to a particle size less than about 3 centimeters to form a carpet feed stock comprising fiber of claim 21, said fiber having a diameter of about 0.2 mm to 1 cm;
- (b) adjusting the carpet feed stock to such that the content of the feed stock is about 25 to 35 wt% nylon forming a balanced carpet feed stock;
- (c) introducing the balanced carpet feed stock into an extruder having at least one barrel zone temperature greater than about 250°C; and
- (d) extruding the carpet feed stock to form a structural composite comprising fiber dispersed in a fused matrix, the composite having a thickness of about 0.1 to 2 centimeters, a width of about 2 to 200 centimeters and an indeterminate length.
- 46. (Withdrawn) The method of claim 45, wherein said carpet comprises carpet ends, carpet recycle, carpet scrap or mixtures thereof.
- 47. (Withdrawn) The method of claim 45, wherein said extruder has at least one barrel zone temperature greater than about 250° C.
- 48. (Withdrawn) The method of claim 45, wherein said extruder has at least one barrel zone temperature greater than about 300° C.
- 49. (Withdrawn) The method of claim 45, wherein said feed stock is extruded at pressures above about 1.5·10³ psi.
- 50. (Withdrawn) The method of claim 45, wherein said carpet feed stock is extruded at pressures above about 2·10³ psi.
- 51. (Withdrawn) The method of claim 45, wherein said composite material is extruded to a thickness of from about 0.1 to 2 centimeters.
- 52. (Withdrawn) The method of claim 45, wherein the composite feed stock additionally comprises a pellet or flake thermoplastic resin.

- 53. (Withdrawn) The method of claim 45, wherein the length of the composite is less than about 10 meters.
- 54. (Original) A composite structural material comprising a fiber dispersed in a fused matrix, wherein said composite structural material has a flexural elastic modulus (ASTM D790) of at least about 2·10⁵ psi.
- 55. (Original) The composite of claim 54, wherein the composite comprises a blend of a polyolefin, a polyamide, and a hot-melted heat adhesive.
- 56. (Original) The composite material of claim 54, wherein said matrix comprises about 20 to 30 wt.-% Nylon.
- 57. (Original) The composite material of claim 54, wherein said matrix comprises about 0.1 to 30 wt.-% Nylon 6.
- 58. (Original) The composite material of claim 54, wherein said matrix comprises about 0.1 to 30 wt% Nylon 6,6.